What is claimed is:

A medical guide wire comprising:
an elongated and flexible core member;

a front catheter engagement portion provided around said core member and formed into a bulged shape or a truncated cone shape, a diameter of which progressively decreases as approaching a rear end of said front catheter engagement portion;

said front catheter engagement portion being capped with a balloon catheter to provisionally connect said balloon catheter to said front catheter engagement portion so that said balloon catheter is inserted into a blood vessel concurrently at the time when introducing a medical guide wire into said blood vessel.

- 2. The medical guide wire according to claim 1, wherein a leading bulge portion is formed by an ellipsoidal helical spring or a columnar member, and a rear half of said leading bulge portion forming said front catheter engagement portion so as to introduce said leading bulge portion into a stricture blood vessel area.
- 3. The medical guide wire according to claim 1, wherein said front catheter engagement portion is formed by depositing a solder or an adhesive on said core member.
- 4. The medical guide wire according to claim 1, wherein a provisionally connecting member is provided at a front open end of said balloon catheter to provisionally

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connect said balloon catheter to said front catheter engagement portion.

- 5. The medical guide wire according to claim 4, wherein said provisionally connecting member is a carve or a rolled end provided at said front open end of said balloon catheter.
- 6. The medical guide wire according to claim 2, wherein said provisionally connecting member is a groove which fit into said leading bulge portion formed by an ellipsoidal helical spring.
- 7. The medical guide wire according to claim 1, wherein said balloon catheter and said front catheter engagement portion are formed by a common synthetic resin to produce a coefficient of static friction therebetween, a magnitude of which is determined enough to provisionally connect said balloon catheter to said front catheter engagement portion.
- 8. The medical guide wire according to claim 7, wherein said balloon catheter and said front catheter engagement portion are commonly formed by a synthetic resin selected from the group consisting of polyamide, polyvinyl chloride, polytetrafluoroethylene and polyethylene.

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